



1542
RECEIVED
OCT 31 2002
TECH CENTER 1600/2800

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: G.A. Demopoulos et al. Attorney Docket No.: OMER118473
Application No.: 10/031,546 Group Art Unit: 1646
Filed: January 18, 2002 P.M. Mertz
Title: SOLUTIONS AND METHODS FOR INHIBITING CARTILAGE DEGRADATION

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Seattle, Washington 98101

October 24, 2002

#5
MgJ
11/7/02

TO THE COMMISSIONER FOR PATENTS:

Applicants are aware of the information listed in the attached form that may be material to the prosecution of the above-identified patent application.

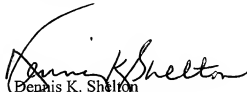
1. X Copies of the listed patents, publications, and other information are enclosed for the Examiner's use.
2. X Pursuant to 37 C.F.R. § 1.97(b), this Information Disclosure Statement is being filed within three months of the filing date of the national application (other than a CPA), within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, before the mailing date of a first Office Action on the merits, or before the mailing date of a first Office Action after the filing of an RCE.
3. X The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16, 1.17 and 1.18 which may be required during the entire pendency of the application, or credit any overpayment, to Deposit Account No. 03-1740. This authorization also hereby includes a request for any extensions of time of the

LAW OFFICES OF
CHRISTENSEN O'CONNOR JOHNSON KINDNESSsm
1420 Fifth Avenue
Suite 2800
Seattle, Washington 98101
206.682.8100

appropriate length required upon the filing of any reply during the entire prosecution of this application.

Respectfully submitted,

CHRISTENSEN O'CONNOR
JOHNSON KINDNESS^{PLLC}


Dennis K. Shelton
Registration No. 26,997
Direct Dial No. 206.695.1718

I hereby certify that this correspondence is being deposited with the U.S. Postal Service in a sealed envelope as first class mail with postage thereon fully prepaid and addressed to the U.S. Patent and Trademark Office, P.O. Box 2327, Arlington, VA 22202, on the below date.

Date: 10/24/02


Carole Gulyan

DKS:cj

LAW OFFICES OF
CHRISTENSEN O'CONNOR JOHNSON KINDNESS^{PLLC}
1420 Fifth Avenue
Suite 2800
Seattle, Washington 98101
206.682.8100



RECEIVED
OCT 31 2002
TECH CENTER 1600/2600

INFORMATION CITED BY APPLICANTS THAT MAY BE MATERIAL
TO THE PROSECUTION OF THE SUBJECT APPLICATION

Applicants: G.A. Demopolus et al. Attorney Docket No: OMER-1-1847
Serial No: 10/031,546 Group Art Unit: 1614
Filed: January 18, 2002 Examiner:
Title: SOLUTIONS AND METHODS FOR INHIBITING CARTILAGE
DEGRADATION

U.S. PATENT DOCUMENTS

*Examiner Initial	ID	Document No.	Date	Name
_____	U365	5,324,775	6/28/1994	Rhee et al.
_____	U367	6,281,195	8/28/2001	Rueger et al.
_____	U368	6,093,743	7/25/2000	Lai et al.
_____	U369	5,667,810	09/16/1997	Levin
_____	U370	5,817,305	10/06/1998	Hamilton et al.
_____	U371	4,808,402	02/28/1989	Leibovich et al.
_____	U372	5,008,240	04/16/1991	Bentz et al.
_____	U373	5,449,515	09/12/1995	Hamilton et al.
_____	U374	5,455,268	10/03/1995	Watanabe et al.
_____	U375	5,679,338	10/21/1997	Yeh et al.
_____	U376	5,843,899	12/01/1998	Halloran
_____	U377	5,948,428	09/07/1999	Lee et al.
_____	U404	6,156,304	12/05/2000	Glorioso et al.
_____	U405	4,642,120	02/10/1987	Nevo et al.
_____	U406	5,747,532	05/05/1998	Lai
_____	U407	5,753,218	05/19/1998	Smith et al.
_____	U408	5,858,355	01/12/1999	Glorioso et al.
_____	U409	5,932,207	08/03/1999	Schmidt
_____	U410	6,083,906	07/04/2000	Trouitt
_____	U411	6,110,209	08/29/2000	Stone

*Examiner Initial	ID	Document No.	Date	Name
_____	U412	6,180,606 B1	01/30/2001	Chen et al.
_____	U413	6,315,992 B1	11/13/2001	Noh et al.
_____	U415	5,288,704	2/22/1994	Ungheri et al.
_____	U416	5,145,841	9/8/1992	Cullis-Hill et al.
_____	U422	5,696,091	12/09/1997	York et al.
_____	U487	6,090,382	7/18/2000	Salfeld et al.
_____	U488	6,258,562 B1	7/10/2001	Salfeld et al.
_____	U489	6,171,787 B1	1/9/2001	Wiley

FOREIGN PATENT DOCUMENTS

*Examiner Initial	ID	Document No.	Publication Date	Country	Translation Provided	
					Yes	No
_____	F100	EP 0500556 B1	09/02/1992	European	X (claims only)	
_____	F109	WO 01/87323 A2	11/22/2001	WIPO		
_____	F110	WO 02/00244 A2	01/03/2002	WIPO		
_____	F111	WO 99/08728	02/25/1999	WIPO		
_____	F112	WO 00/48550	08/24/2000	WIPO		

OTHER INFORMATION

(Including Author, Title, Date, Pertinent Pages, Etc.)

*Examiner Initial	ID	Document Information
_____	O433	Hardingham, T.E., et al. "Regulation of Cartilage Matrix Synthesis by Chondrocytes," <i>Rev.Rhum. [Ed Fr.]</i> 61:93S-98S (1994).
_____	O510	Ghosh, Peter. "The Pathobiology of Osteoarthritis and the Rationale for the Use of Pentosan Polysulfate for Its Treatment," <i>Seminars in Arthritis and Rheumatism</i> 28:211-267 (1999).
_____	O524	Sah, Robert, et al. "Differential Effects of bFGF and IGF-I on Matrix Metabolism in Calf and Adult Bovine Cartilage Explants," <i>Archives of Biochemistry and Biophysics</i> 308:137-147 (1994).

*Examiner Initial	ID	Document Information
_____	O858	Goldring, M.B. "The Role of the Chondrocyte in Osteoarthritis," <i>Arthritis and Rheumatology</i> 43:1916-1926 (2000).
_____	O865	Cook, T.M., et al. "Postarthroscopic Meniscus Repair Analgesia with Intraarticular Ketorolac or Morphine," <i>Anesth. Analg.</i> 84:466-467 (1997).
_____	O1159	Ghosh, P., et al. "Interactions of Pentosan Polysulfate with Cartilage Matrix Proteins and Synovial Fibroblasts Derived from Patients with Osteoarthritis," <i>Osteoarthritis and Cartilage</i> 4:43-53 (1996).
_____	O1162	Kalbhen, D.A. "Pharmacological Studies on the Anti-Inflammatory Effect of a Semi-Synthetic Polysaccharide," <i>Pharmacology</i> 9:74-79 (1973).
_____	O1164	Read, R.A., et al. "Systemic Use of Pentosan Polysulphate in the Treatment of Osteoarthritis," <i>Journal of Small Animal Practice</i> 37:108-114 (1996).
_____	O1166	Verbruggen, G., et al. "Intra-Articular Injection of Pentosanpolysulphate Results in Increased Hyaluronan Molecular Weight in Joint Fluid," <i>Clinical and Experimental Rheumatology</i> 10:249-254 (1992).
_____	O1167	Munteanu, S., et al. "Calcium Pentosan Polysulfate Inhibits the Catabolism of Aggrecan in Articular Cartilage Explant Cultures," <i>Arthritis & Rheumatism</i> 43:2211-2218 (2000).
_____	O1168	Riass, R., et al. "Chondrocytes and Antirheumatic Drugs," <i>The Journal of Rheumatology</i> 22: 152-154 (1995).
_____	O1169	Ghosh, P., et al. "Osteoarthritis, Genetic and Molecular Mechanisms," <i>Biogerontology</i> 3:85-88 (2002).
_____	O1171	Smith, M., et al. "The Effects of Orally Administered Calcium Pentosan Polysulfate on Inflammation and Cartilage Degradation Produced in Rabbit Joints by Intraarticular Injection of a Hyaluronate-Polylysine Complex," <i>Arthritis & Rheumatism</i> 37: 125-136 (1994).
_____	O1172	Ghosh, P., et al. "Chondroprotection, Myth or Reality: An Experimental Approach," <i>Seminars in Arthritis and Rheumatism</i> 19:3-9 (1990).
_____	O1173	Ghosh, P., et al. "Animal Models of Early Osteoarthritis: Their Use for the Evaluation of Potential Chondroprotective Agents," in <i>Joint Destruction in Arthritis and Osteoarthritis</i> 195-206 (1993).

*Examiner
Initial

ID

Document Information

- | | | |
|-------|-------|--|
| _____ | O1174 | Kongtawelert, P., et al. "Pentosan Polysulfate (Cartrophen®) Prevents the Hydrocortisone Induced Loss of Hyaluronic Acid and Proteoglycans from Cartilage of Rabbit Joints as Well as Normalizes the Keratan Sulfate Levels in Their Serum," <i>The Journal of Rheumatology</i> 16 :1454-1459 (1989). |
| _____ | O1176 | Costeseque, R., et al. "Polysulphated Polysaccharides: an In Vitro Study of their Effects on Proteoglycan Biosynthesis by Articular Chondrocytes," <i>Arch. Int. Pharmacodyn.</i> 282 :196-208 (1986). |
| _____ | O1177 | Kalbhen D.A. "Pharmakologische Beurteilung von Möglichkeiten einer Knorpelschutztherapie bei degenerativen Gelenkerkrankungen (Arthrosen)," <i>Z. Rheumatol.</i> 42 :187-194 (1983). |
| _____ | O1178 | Grumbles, R., et al. "Cartilage Metalloproteases in Disuse Atrophy," <i>The Journal of Rheumatology</i> 22 :146-148 (1995). |
| _____ | O1179 | Burton-Wurster, N., et al. "Accumulation of Fibrinectin in Articular Cartilage Explants Cultured with TGFβ1 and Fucoidan," <i>Archives of Biochemistry and Biophysics</i> 316 :452-460 (1995). |
| _____ | O1193 | Sadhukhan, P., et al. "Sodium Pentosan Polysulfate Reduces Urothelial Responses to Inflammatory Stimuli via an Indirect Mechanism," <i>The Journal of Urology</i> 168 :289-292 (2002). |
| _____ | O1209 | Collier, S., et al. "Evaluation of the effect of antiarthritic drugs on the secretion of proteoglycans by lapine chondrocytes using a novel assay procedure," <i>Ann. Rheum. Dis.</i> 48 :372-381 (1989). |

Examiner

Date Considered

*Examiner: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

MSK:jdg